

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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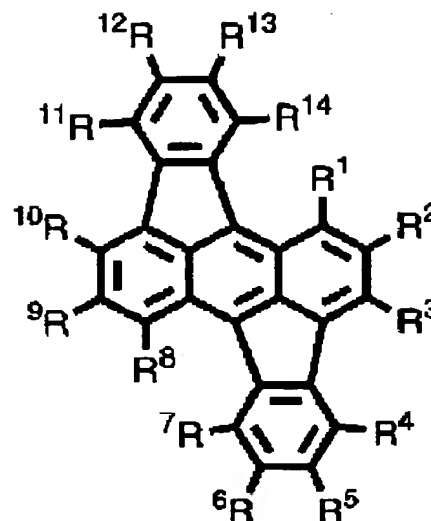
APPLICATION DATE : 09-06-97  
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APPLICANT : TOYO INK MFG CO LTD;

INVENTOR : ENOKIDA TOSHIO;

INT.CL. : H05B 33/14 C09K 11/06

TITLE : ORGANIC ELECTROLUMINESCENCE  
ELEMENT MATERIAL AND ORGANIC  
ELECTROLUMINESCENCE ELEMENT  
USING THE SAME



ABSTRACT : PROBLEM TO BE SOLVED: To provide an organic electroluminescence element material and an organic electroluminescence element of high brightness, high luminous efficiency, little luminescence deterioration, and high reliability.

SOLUTION: An organic electroluminescence element material made up and represented by an expression and an organic electroluminescence element using this are obtained. In the expression, R<sub>1</sub> to R<sub>14</sub> designate a hydrogen atom, a halogen atom, a cyano radical, a nitro radical, an alkyl radical, an aryl radical, an alkoxy radical, an aryloxy radical, an alkylthio radical, an arylthio radical, a cycloalkyl radical, an allyl radical, a heterocyclic radical, an amino radical, an alkylamino radical, and an arylamino radical, respectively. Further, a new ring may be formed by bonding neighboring radicals among R<sub>1</sub> to R<sub>14</sub> to each other.

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